CLAIMS

What is claimed is:

1. A method for changing the speed of an encoded audio signal, said method comprising:

receiving the encoded audio signal;

retrieving frames from the encoded audio signal;

transforming the frames of the audio signal into a frequency domain, wherein each of said frames are associated with a plurality of initial phases, and a corresponding plurality of ending phases; and

replacing the initial phases of at least one of the frames with the ending phases of another frame.

2. The method of claim 1, wherein retrieving frames further comprises:

repeating some of the frames, wherein a desired playback speed is slower than a speed associated with the encoded audio signal; and

skipping some of the frames, wherein a desired playback speed is faster than the speed associated with the encoded audio signal.

- 3. The method according to claim 1 wherein the encoded original audio signal is encoded in the frequency domain using one of a plurality of encoding schemes, the method further comprising frequency-domain decoding of the encoded original audio signal.
- 4. The method according to claim 3 wherein said decoding comprises:

decoding said encoded signal using a decoding scheme corresponding to said one of a plurality of encoding schemes;

applying an inverse transform to the encoded audio signal; and

applying an inverse window function.

5. The method according to claim 1 wherein the desired playback speed is a programmable value.

6. A machine-readable storage having stored thereon, a computer program having at least one code section that changes the speed of an encoded audio signal, the at least one code section being executable by a machine for causing the machine to perform operations comprising:

receiving the encoded audio signal;

retrieving frames from the encoded audio signal;

transforming the frames of the audio signal into a frequency domain, wherein each of said frames are associated with a plurality of initial phases, and a corresponding plurality of ending phases; and

replacing the initial phases of at least one of the frames with the ending phases of another frame.

7. The machine-readable storage according to claim 6, wherein retrieving frames further comprises:

repeating some of the frames, wherein a desired playback speed is slower than a speed associated with the encoded audio signal; and

skipping some of the frames, wherein a desired playback speed is faster than the speed associated with the encoded audio signal.

8. The machine-readable storage according to claim 6 wherein the encoded original audio signal is encoded in the frequency domain using one of a plurality of encoding schemes, the machine-readable storage further comprising code for frequency-domain decoding of the encoded original audio signal.

9. The machine-readable storage according to claim 7 further comprising:

code for decoding said encoded signal using a decoding scheme corresponding to said one of a plurality of encoding schemes;

code for applying an inverse transform to the encoded audio signal; and

code for applying an inverse window function.

10. The machine-readable storage according to claim 6 wherein the desired playback speed is a programmable value.

- 11. A system that changes the speed of an encoded audio signal, the system comprising:
- a first circuit for receiving the encoded audio signal;
- a second circuit for retrieving frames from the encoded audio signal;
- a third circuit for transforming the frames of the audio signal into a frequency domain, wherein each of said frames are associated with a plurality of initial phases, and a corresponding plurality of ending phases; and
- a fourth circuit for replacing the initial phases of at least one of the frames with the ending phases of another frame.
- 12. The system according to claim 11 wherein the encoded audio signal is encoded in the frequency domain using one of a plurality of encoding schemes, the system further comprising a fifth circuit for frequency-domain decoding of the encoded original audio signal.
- 13. The system according to claim 11 wherein the desired playback speed is a programmable value.